

Reference report

Contact person



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About SIGMA

As a reputable system house in Saxony SIGMA Chemnitz GmbH operates as system integrator and partner of well-known Providers in the IT sector. Our over 70 employees form a competent team at the location Chemnitz. With expertise, competence and almost 30 years of experience we offer our customers reliable and powerful solutions.

About our AutoID and RFID solutions

AutoID and RFID solutions for production, logistics and supply chain. Our customers appreciate us as competent, innovative partner, to accompany them from the initial problem analysis until the goal with commitment. Many years of project experience of our employees form the foundation for effective AutoID and RFID solutions for production, logistics and supply chain.

About GRAIDWARE®

The AutoID middleware GRAIDWARE® is an intelligent abstraction layer for different hardware components and business applications. Work tools, production steps and AutoID data can be identified, monitored, controlled and configured.



ROTKÄPPCHEN-MUMM

About the company

Rotkäppchen-Mumm Sektkellereien GmbH is a traditional company based in Freyburg an der Unstrut and Germany's leading producer of sparkling wines and spirits.

Decision for RFID technology from SIGMA

In the course of the further development of the traditional bottle fermentation process, Rotkäppchen-Mumm decided to use the AutoID / RFID technology of SIGMA Chemnitz GmbH. With modern RFID technology and the GRAIDWARE® software solution, the storage and retrieval processes in the sparkling wine warehouse are monitored.

About the project

Attaching RFID tags (UHF) to the storage containers and the associated creation of an object „box“ is the prerequisite for contactless recognition of the containers at the defined reading points.

Advantages of the solution

Special apps enable the user to carry out the following functions via RFID handheld devices:

- Identify and process orders
- Execute stock postings and changes
- Display container information

Starting from the SAP production order at the filling machine, the bottles are married to the employed and identified storage container. All relevant production data such as the number of bottles per container and the filling date are stored at the "Box" object. The challenge for this process step is the limited space in the production area.

For the RFID system, this requires complex filtering of the read data to sort out external readings. When the box is transported to its storage location, various RFID gates are passed. After the container is parked, the storage location will be stored at the object.

It is important for the customer to ensure that a certain storage time is observed. This is monitored by the system and automatically checked when the containers are removed from storage. Emptying of containers is also automatically compared with the existing SAP order.



With the integrated download and browser lock for mobile devices, devices comply with the User's security guidelines. Since extensive data is generated and stored in the system, various valuations were developed using MS Power-BI. After training, the customer is able to develop these evaluations independently in the system. The developed inventory and movement reports provide information about batches, order status and storage locations, among other things.

These reports and statistics are, in addition to storage time monitoring and storage location determination, the great benefit for the user. Manual records can be omitted.

Our customer says so:

We have chosen this RFID system in order to be able to keep a secure stock and movement record. The focus here is on replacing paper-based inventory accounting and making decisions intuitively. This gives us a foundation for expanding production. The cooperation with SIGMA Chemnitz GmbH was target-oriented, agile and reliable.

Silke Kahl, Head of Production Administration Technology, Rotkäppchen-Mumm Sektkellereien GmbH